



SEQUENCE LISTING

<110> Ouellet, Therese
Miki, Brian M.
Foster, Elizabeth
Martin-Heller, Teresa
Tian, Lining
Brown, Daniel C.
Zhang, Peijun
Hattori, Jiro
Malik, Kamal
Wu, Keqiang
Theilmann, David Allan
Tropiano, Raymond

<120> Translational Regulatory Element

<130> 08-885707US1

<140> 09/747,007

<141> 2000-12-21

<150> US 60/172,813

<151> 1999-12-21

<160> 33

<170> PatentIn version 3.1

<210> 1

<211> 2224

<212> DNA

<213> Nicotiana tabacum

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gtcaaaaggg aacttcaccc tcctagttct ttatttccaa catacatggg gagtaatgct 180
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cccagtgaac tcaactttcc tggatagatc agcactcctt catgacattg catgccttct 420
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aactgcattt tgccgcttaa gatgcttcgg cgctttgtga attttaagtc atgagaaagt 600
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caacatgttt aatgggtaac caagtgaaag atcaaaatag tcattagaac aaaatgcgtg	840
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actagcctat tttatttcaa ttttagctta aaatcagccc caattagccc caatttcaa	1920
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ctta	2224

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 actcacctcc ctttctctt acagtactcg gccgtcgacc gcggtacccg ggtggtcagt 180
 cccttatg 188

<210> 3
 <211> 129
 <212> DNA
 <213> delta N with Kozak sequence

<400> 3 60
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 tcccttatg 129

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 <212> DNA
 <213> deltaN without Kozak sequence

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 <211> 23
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 <213> Linker 1

<400> 5 23
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<210> 6
 <211> 24
 <212> DNA
 <213> Linker 2

<400> 6 24
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<210> 7
 <211> 18
 <212> DNA
 <213> Linker 3

<400> 7 18
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<210> 8
 <211> 24

<212> DNA
<213> Linker 4

<400> 8
atcatcctca cctcaaaaacc cacc

24

<210> 9
<211> 24
<212> DNA
<213> Linker 5

<400> 9
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<210> 10
<211> 602
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<213> Nicotiana tabacum, rent 1

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<222> (1)..(602)
<223> where n is a or t or g or c

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atttaaatatt ttacattat taattaattt agaagtttta attttttttc agaaatcatt 180
ttactatttt tataaaaaaca aaagggaaaa gtggttattt aaatactagc cctatttcat 240
ttcaattata gcctaaaatc agccccaatt aaccccaatt ccaaattcaa acggggccagc 300
ccaattccta aatgaccgcg ctcttaaccc gctttttcaa cccgcccggg tccccctttt 360
gatccaggct gttgatcatt ttgatcaacg gccagaattt cccctttcct ttttaattcc 420
caaacacccc ccaaccttat cccgtttctc accaaccgcc agatctatcc tcttatctct 480
caaactctct cgaaccttcc cctaacccta gcagcctctc atcatcctca cctcaaaaacc 540
caccggccac catggcctct agaggatccc cgggtggtca gtcccttatg ttacgtcctn 600
aa 602

<210> 11
<211> 610
<212> DNA
<213> Nicotiana tabacum, RENT 2

<400> 11
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ttacgccaag ctctaatacg actcactata gggaaagctt ataattacaa aattgattct 120

agtattttta atttaatat tatacattat taattaactt agtactttca attcgttttc 180
 aaaaattatt ttactatttt ttgtaaaata aaagggagaa aatgggtatt taaatactag 240
 ccctattttta tttcaatttt agcctaaaat cagcccccaa ttaaccccaa tttcaaattc 300
 aaatgggaca gccaatttc taaaataacc cgcccctaac cctcttatcc aaccacccg 360
 atttcccctt ttgatccagg ttgttgatca ttttgatcaa cgaccagaat ttcccccttc 420
 ctgtttttta tttccaaaca ccccccaacc ctatccatt tctcaccaac cgccagatct 480
 atcctcttat ctctcaaact ctctgaacc ttcccctaac cctagcagcc tctcatcatc 540
 ctcacctcaa aaccacccg ccaccatggc ctctagagga tccccgggtg gtcagtcctt 600
 tatgtgcgtc 610

<210> 12
 <211> 507
 <212> DNA
 <213> Nicotiana tabacum, RENT 3

<220>
 <221> misc_feature
 <222> (1)..(507)
 <223> where n is a or t or g or c

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 ttgttttcag aaattatttt actatttttt ataaaaataaa agggagaaaa tggctattta 120
 aataccagcc ctattttatt tcaattttta cctaaaatca gccccagtta gccccaaacg 180
 gcccatccca attcctaaaa taactcgccc ctaacccgct tatccaaccc gcccggttcc 240
 ccttttgatc caggccgttg atcattttga tcaacgacca gaatttcccc ttctcttttt 300
 taattcccaa acaccgcaa acctatccca tttctacca accgccagat ctatcctctt 360
 atctctcaaa ctctctcgaa cttccctta accctagcag cctctcatca tctcacctc 420
 aaaaccacc ggccaccatg gcctctagag gatccccggg tggtcagtcc cttatgtnac 480
 gncctaaatg nccgncctgn nnnnnnc 507

<210> 13
 <211> 599
 <212> DNA
 <213> Nicotiana tabacum, RENT 5

<220>
 <221> misc_feature
 <222> (1)..(599)
 <223> where n is a or t or g or c

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ctctaatang actcactata gggaaagctt ataattacaa atttgattct agtattttta 120
atttaatat tatacattat taattaattt agtactttca atttgttttc agaaatcatt 180
ttactatggt ttataaaata aaagggagaa aatggctatt taaatactag ccctatttta 240
tttcaatttt agcctaaaat cagccccaat taacccttat ttcaaattca aacgggctag 300
cccagttcct aaaataacct tcccctaacc cgcttatcca acccgccctg tttccctttt 360
tgatccaggc cgttgatcat ttgatcaac gaccaaatt tcccctttcc ttttttaatt 420
cccaaacc ccacacctta tcccatttct caccaaccgc cagatctatc ctcttatctc 480
tcaaactctc tcgaaccttc ccctaacctt agcagcctct catcatctc acctcaaaac 540
ccaccggcca ccatggcctc tagaggatcc cggggtggtc agtcccttat gttacgtcc 599

<210> 14
<211> 616
<212> DNA
<213> Nicotiana tabacum, RENT 7

<220>
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<222> (1)..(616)
<223> where n is a or t or g or c

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aacagctatg accatgatta cgccaagctc taatacgact cactataggg aaagcttata 120
attacaaaat tgattatagt acttttaatt taatatttat acattattaa ttaatttagc 180
actttcaatt tattttcaga aaccatttta ctatttttta taaaataaaa gggacaaaat 240
ggctatttaa ataccaacac tattttattt caatttttagc ctaaaatcaa acccaattaa 300
cccaaacgg gccagcccaa ttcctaaaac aaccgcccc taaccgctt atccaaccg 360
cccgatttcc tcttttgatc caggccgttg atcattttga tcaacggcca gaatttcccc 420
tttctttttt tcattcccaa acaccccaa acctatccca tttctacca accgccagat 480
ctatcctctt atctctcaaa ctctctcgaa ccttccccta accctagcag cctctcatca 540
tcctcacctc aaaaccacc ggccaccatg gcctctagag gatccccggg tggtcagtcc 600
cttatgttac gtctn 616

<210> 15

<211> 24
<212> DNA
<213> SCAN 1

<400> 15
aagactcaaa ctctctcgaa cctt

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<210> 16
<211> 24
<212> DNA
<213> SCAN 2

<400> 16
atctgagaaa ctctctcgaa cctt

24

<210> 17
<211> 24
<212> DNA
<213> SCAN 3

<400> 17
atctctcggg ctctctcgaa cctt

24

<210> 18
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<212> DNA
<213> SCAN 4

<400> 18
atctctcaaa gactctcgaa cctt

24

<210> 19
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<212> DNA
<213> SCAN 5

<400> 19
atctctcaaa ctcagacgaa cctt

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<210> 20
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<212> DNA
<213> SCAN 6

<400> 20
atctctcaaa ctctctgcta cctt

24

<210> 21
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<212> DNA
<213> SCAN 7

<400> 21
atctctcaaa ctctctcgag agtt

24

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<400>	27	
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<211>	118	
<212>	DNA	
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 gatcggacta ctagcagctg taatacgact cactataggg aatattaagc ttggtatc 118

<210> 29
 <211> 12
 <212> DNA
 <213> pye330l2gus

<400> 29
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<210> 30
 <211> 31
 <212> DNA
 <213> pye373l2gus

<400> 30
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<210> 31
 <211> 55
 <212> DNA
 <213> pye349l2gus

<400> 31
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<210> 32
 <211> 82
 <212> DNA
 <213> pye400l2gus

<400> 32
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 ggatcggact actagcggta cc 82

<210> 33
 <211> 525
 <212> DNA
 <213> tcup-rent

<400> 33
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 ctattttaat actagcctat tttatttcaa ttttagctta aaatcagccc caattagccc 180
 caatttcaaa ttcaaatggt ccagcccatt tcctaaataa cccacccta acccgcccg 240
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